

U.S. Department of Labor

Occupational Safety and Health Administration
1600 167th Street, Suite 12
Calumet City, IL 60409
(708) 891 - 3800
(708) 862 - 9659 (FAX)



EPA Region 5 Records Ctr.



225348

June 7, 1994

U.S. Environmental Protection Agency
77 West Jackson Blvd.
Chicago, Illinois 60604
ATTN: Verneta Simon

Dear Ms. Simon:

In response to your referral concerning safety and/or health hazards at:

161 East Grand Association
161 East Grand Avenue
Chicago, Illinois 60611

An inspection was conducted by the Occupational Safety and Health Administration which was completed on May 11, 1994.

The results of our investigation of your referral items are as follows:

Sampling for thoron gas was conducted at the site. This data was evaluated by a number of agency contacts. The final outcome of the investigation is as follows:

At the time of the inspection the thoron gas levels on all floors of the building were estimated to be considerably less than 0.1 WL (working level). Therefore, no further action needs to be taken by the building managers. Sample results are attached for your information.

If you do not agree with our inspection results, you may contact me for a clarification of the matter. You also have the right to an informal review by the OSHA Area Director who may be contacted at the following location:

Gary J. Anderson
Area Director
U.S. Department of Labor - OSHA
1600 167th Street, Suite 12
Calumet City, Illinois 60409
(708) 891-3800

Thank you for your concern for a safe and healthful workplace.

Respectfully,

A handwritten signature in black ink, appearing to read "Gary J. Anderson". The signature is fluid and cursive, with a large initial "G" and "A".

Gary J. Anderson
Area Director

Enclosure

GJA/csm

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U.S. Department of Labor Occupational Safety and
Health Administration
1600 167th Street, Suite 12
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June 1, 1994

161 E. Grand Association
161 E. Grand Avenue
Chicago, IL 60611

The results of the samples taken at the 161 E. Grand site on 1/12/94 and 2/23/94 indicated that employees in the facility were exposed to radon 220 (thoron) and radon 222 at Derived Air Concentrations (DAC) below the Nuclear Regulatory Commission's Ionizing Radiation Standards published in 10 CFR 20, Table 1 of Appendix B. Therefore no citation concerning ionizing radiation will be issued. The sampling result values are a conservative estimate which indicate the highest expected exposure, actual exposures are believed to be considerably lower. The sample results are as follows:

<u>SAMPLE</u>	<u>CHEMICAL</u>	<u>RESULTS</u>	<u>DAC</u>
1/12/94			
SAMPLE/RADON 222			
4th floor (control room)	Radon 222	1.2 pCi/L	30 pCi/L
4th floor (post production)	Radon 222	0.7 pCi/L	30 pCi/L
3rd floor (Cleo's office)	Radon 222	1.5 pCi/L	30 pCi/L
2nd floor (hallway)	Radon 222	2.6 pCi/L	30 pCi/L
Basement (close to chimney)	Radon 222	4.4 pCi/L	30 pCi/L
Basement (aisleway)	Radon 222	1.0 pCi/L	30 pCi/L

2/24/94
SAMPLE

4th floor (post production)	Radon 222	1.2 pCi/L	30 pCi/L
	Radon 220	0.10 WL* 13.0 pCi/L**	1.0 WL
3rd floor (Cleo's office)	Radon 222	1.5 pCi/L	30 pCi/L
	Radon 220	0.046 WL* 5.7 pCi/L**	1.0 WL
2nd floor (Cat's office)	Radon 222	2.6 pCi/L	30 pCi/L
	Radon 220	0.14 WL* 18.0 pCi/L**	1.0 WL
2nd floor (president's office)	Radon 222	3.1 pCi/L	30 pCi/L
	Radon 220	0.00 WL* 0.0 pCi/L*	1.0 WL
1st floor (Terry's desk)	Radon 222	1.4 pCi/L	30 pCi/L
	Radon 220	0.03 WL* 3.7 pCi/L**	1.0 WL
Basement (Lunchroom)	Radon 222	1.2 pCi/L	30 pCi/L
	Radon 220	0.04 WL* 5.5 pCi/L**	1.0 WL

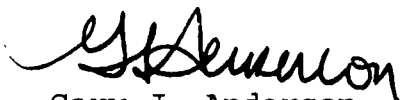
* - Exposure level after adjusting sample results with an factor of 125 pCi/L for a 6% equilibrium factor. This is a conservative estimate and represents the **highest** level expected in the building. Actual exposure is believed to be considerably less.

** - Actual measurement of thoron gas sampled.

WL - Working levels
pCi/L - pico curies per liter
Radon 222 - Radon
Radon 220 - Thoron
DAC - Derived Air Concentration

Pursuant to 29 CFR 1910.20 you are required to provide your employees with a copy of these sampling results. If there are any additional questions regarding these sampling results, please feel free to contact the Calumet City Area Office.

Sincerely,

A handwritten signature in black ink, appearing to read "G. J. Anderson", written over the typed name.

Gary J. Anderson
Area Director

GJA/bls

cc:

Eli Porte

Tom Nolan

Jim Dolan